IAP4 Rec'd PCT/PTO 12 DEC 2005

PTO-1390 (Rev. 07-2005)
Approved for use through 03/31/2007. OMB 0651-0021
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES	ATTORNEY'S DOCKET NUMBER WIBL-P01-013					
DESIGNATED/ELECTED OFFICE (DO/EO/US)	U.S. APPELICATION NO rit known see 87 CFR 1.5)					
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
US04/019017 14 June 2004	13 June 2003					
TITLE OF INVENTION METHODS OF REGULATING METABOLISM AND MITOCHONDRIAL FU	JNCTION					
APPLICANT(S) FOR DO/EO/US Mootha et al.						
Applicant herewith submits to the United States Designated/Elected Office (DO/EO	VUS) the following items and other information:					
1. x This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.						
2. This is a SECOND or SUBSEQUENT submission of items concerning a s	submission under 35 U.S.C. 371.					
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
4. X The US has been elected (Article 31).						
5. x A copy of the International Application as filed (35 U.S.C. 371 (c)(2))						
a. is attached hereto (required only if not communicated by the Internation	ional Bureau).					
b. has been communicated by the International Bureau.						
c. x is not required, as the application was filed in the United States Receiving Office (RO/US).						
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).						
a. is attached hereto.						
b. has been previously submitted under 35 U.S.C. 154(d)(4).						
7. x Amendments to the claims of the International Application under PCT Arti	icle 19 (35 U.S.C. 371(c)(3))					
a are attached hereto (required only if not communicated by the Interna	ational Bureau).					
b. have been communicated by the International Bureau.						
c. have not been made; however, the time limit for making such amendments has NOT expired.						
d. x have not been made and will not be made.						
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
An English language translation of the annexes of the International Prelim Article 36 (35 U.S.C. 371(c)(5)).	ninary Examination Report under PCT					
Items 11 to 20 below concern document(s) or information included:						
An Information Disclosure Statement under 37 CFR 1.97 and 1.98.						
12. An assignment document for recording. A separate cover sheet in compli	iance with 37 CFR 3.28 and 3.31 is included.					
13. x A preliminary amendment.						
14. X An Application Data Sheet under 37 CFR 1.76.						
15. A substitute specification.						
16. A power of attorney and/or change of address letter.						
17. A computer-readable form of the sequence listing in accordance with P	PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.					
18. x A second copy of the published International Application under 35 U.S.	.C. 154(d)(4). (400 pages)					
19. A second copy of the English language translation of the international a	application under 35 U.S.C. 154(d)(4).					

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U.S. APPLICATION	S. APPCICATION NO. (III KOOM 530 87 F 1.5) INTERNATIONAL APPLICATION NO. US04/019017			ATTORNEY'S DOCKET NUMBER WIBL-P01-013						
20. x Other items or information: Return Receipt Postcard; Certificate of Express mailing (1 page)										
The foll	owing fe	es have	been submitte	ed			CALC	ULATION	s	PTO USEONLY
21. x Basic	c nationa	I fee (37	7 CFR 1.492(a))	••••	\$300	\$	300.0	0	
22. x Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)										
23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)										
	TOTAL C)F 21, 22	and 23 =				\$	1,000.0	0	_
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.										
Total Sheets	Extra Sh	eets	Number of each additional 50 or fraction thereof (round up to a whole number)			RATE				
400 - 100 =	300	/50 =		6		x \$250.00	\$	1500.0	0	
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					or declaration	\$				
CLAIMS	3	NUM	BER FILED	NUMBER EXTRA		RATE				
Total clair			30 - 20 = 10 x 50			500.00				
	ependent claims 7 - 3 = 4 x 200 800.00									
MULTIPLE DEP	ENDENT	CLAIM(S) (ir applicable)	TOTAL OF A	+	E CALCULATIONS -	\$	2000.0	<u>. </u>	
TOTAL OF ABOVE CALCULATIONS = X Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.				\$ 3800.00						
						SUBTOTAL =	\$	1900.0	0	
			•	ranslation later than 30 m	onth	**	\$	1000.0	<u> </u>	
claimed priority date (37 CFR 1.492(i)). TOTAL NATIONAL FEE = \$ 1900.00										
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +										
TOTAL FEES ENCLOSED =			\$ 1900.00							
							Amour refund	nt to be ed:	\$	
							Amour charge	nt to be	\$	1900.00

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a. A check in the amount of \$ to cover the above	re fees is enclosed.			
b. X Please charge my Deposit Account No. 18-1945 in the amount A duplicate copy of this sheet is enclosed.	ount of \$ 1900.00 to cover the above fees.			
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-1945 . A duplicate copy of this sheet is enclosed.				
d. Fees are to be charged to a credit card. WARNING: Information on should not be included on this form. Provide credit card information	this form may become public. Credit card information			
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status.				
SEND ALL CORRESPONDENCE TO:	Fight Wh			
Patricia Granahan, Sc.D. ROPES & GRAY LLP	3.500.1151.12			
One International Place Boston, Massachusetts 02110-2624 (617) 951-7449	Ignacio Perez de la Cruz NAME			
CUSTOMER NUMBER: 28120	55,535 REGISTRATION NUMBER			
•				

Application No. (if known): Not Yet Assigned

Attorney Docket No.: WIBL-P01-013

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV543593208US in an envelope addressed to:

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on	12 December 2005				
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Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Application Data Sheet (3 pages)

Preliminary Amendment (10 pages)

Transmittal Letter to the United States Designated-Elected Office (3 pages) with copy

Second copy of published International Application (400 pages)

Return receipt postcard

Charge \$1900.00 to deposit account 18-1945